

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111618\
 Data File : VN052370.D
 Acq On : 16 Nov 2018 17:40
 Operator : MD\SY
 Sample : J5767-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-111418-D

Quant Time: Nov 16 22:41:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	297236	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	503123	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	419953	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	134941	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	215618	51.36	ug/l	0.00
Spiked Amount			Recovery	=	102.72%	
35) Dibromofluoromethane	7.60	113	161416	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
50) Toluene-d8	10.09	98	631659	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
62) 4-Bromofluorobenzene	12.40	95	176628	42.06	ug/l	0.00
Spiked Amount			Recovery	=	84.12%	

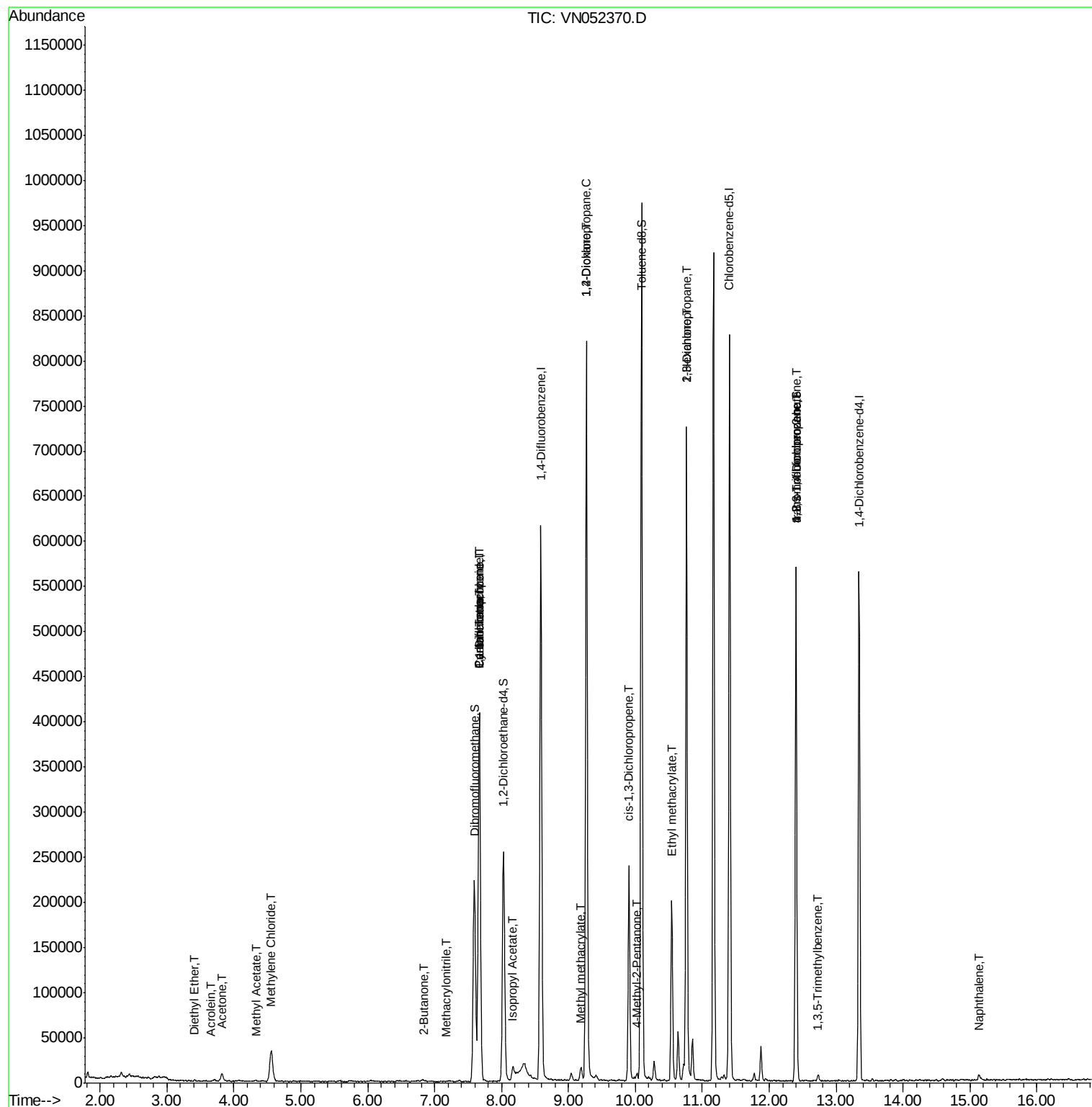
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	418	0.209	ug/l #	28
13) Acrolein	3.65	56	94	22.027	ug/l #	14
16) Acetone	3.82	43	14656	12.680	ug/l	92
18) Methyl Acetate	4.33	43	554	0.601	ug/l #	81
20) Methylene Chloride	4.56	84	22908	5.897	ug/l	93
25) 2-Butanone	6.84	43	369	0.227	ug/l #	52
31) Cyclohexane	7.67	56	8521	0.280	ug/l #	15
36) 1,1-Dichloropropene	7.67	75	27851	5.523	ug/l #	51
38) Carbon Tetrachloride	7.67	117	32072	6.923	ug/l #	15
41) Methacrylonitrile	7.17	41	191	3.782	ug/l #	100
43) Isopropyl Acetate	8.17	43	20288	2.873	ug/l #	97
45) 1,2-Dichloropropane	9.27	63	980	0.240	ug/l #	44
48) Methyl methacrylate	9.18	41	6370	1.778	ug/l #	16
49) 1,4-Dioxane	9.27	88	104	3.781	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	5728	1.611	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	35554	6.367	ug/l #	74
56) Ethyl methacrylate	10.55	69	868	0.211	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	6775	1.224	ug/l #	43
59) 2-Hexanone	10.76	43	115618	47.285	ug/l #	56
76) 1,2,3-Trichloropropane	12.40	75	101080	44.146	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	3078	0.357	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.40	75	101080	143.181	ug/l #	5
95) Naphthalene	15.14	128	4498	3.497	ug/l	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Nov 15 03:02:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

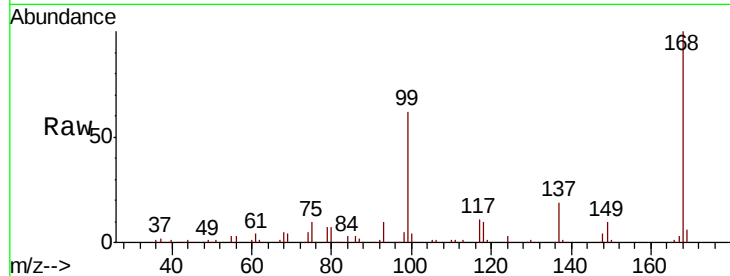
CL-01-111418-D

Tot Ion:168 Resp: 297236

Ion Ratio Lower Upper

168 100

99 62.0 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052370.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052370.D (-1814) (-)

7.67

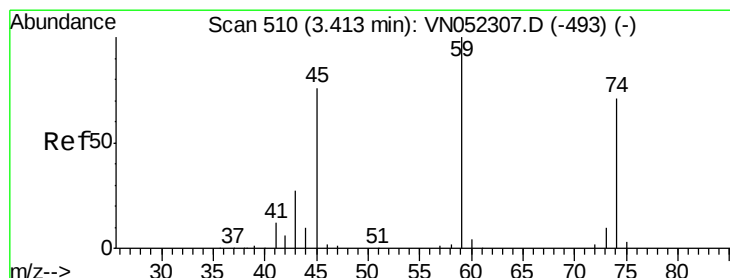
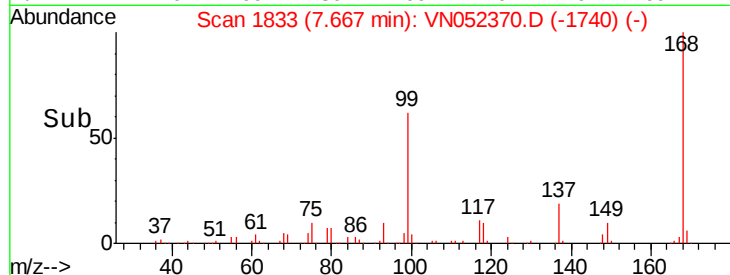
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 0.209 ug/l

RT: 3.41 min Scan# 510

Delta R.T. -0.00 min

Lab File: VN052370.D

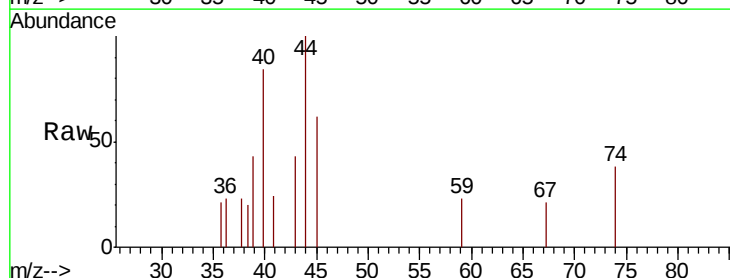
Acq: 16 Nov 2018 17:40

Tgt Ion: 74 Resp: 418

Ion Ratio Lower Upper

74 100

45 183.7 54.3 162.9#



Abundance Ion 74.00 (73.70 to 74.70): VN052370.D (-493) (-)

Ion 45.00 (44.70 to 45.70): VN052370.D (-493) (-)

3.41

500

400

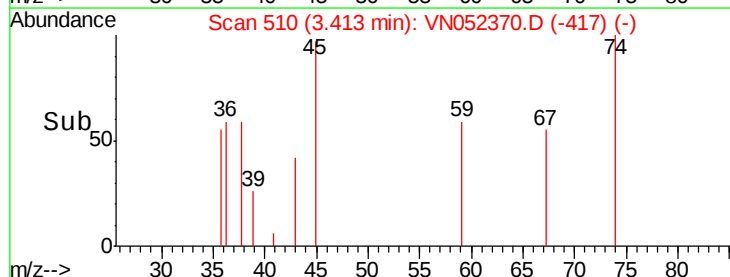
300

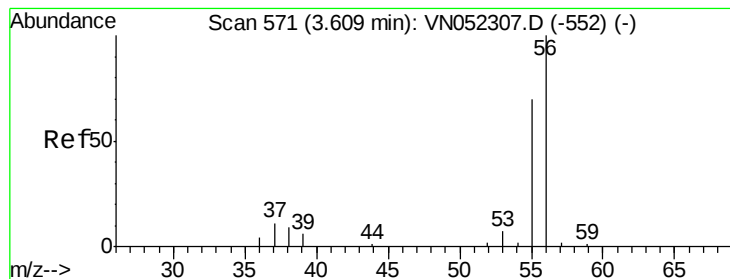
200

100

0

Time-->





#13

Acrolein

Concen: 22.027 ug/l

RT: 3.65 min Scan# 585

Delta R.T. 0.05 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

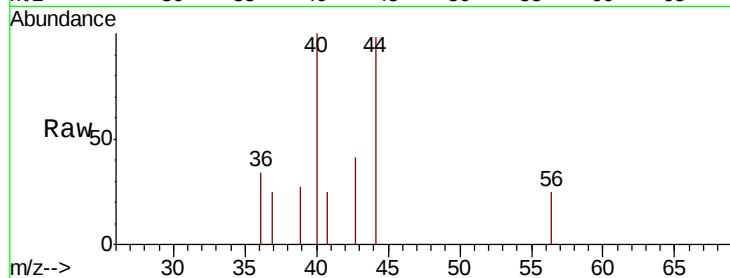
CL-01-111418-D

Tot Ion: 56 Resp: 94

Ion Ratio Lower Upper

56 100

55 0.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.65

150

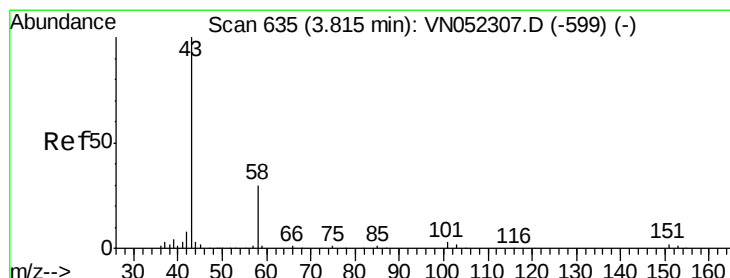
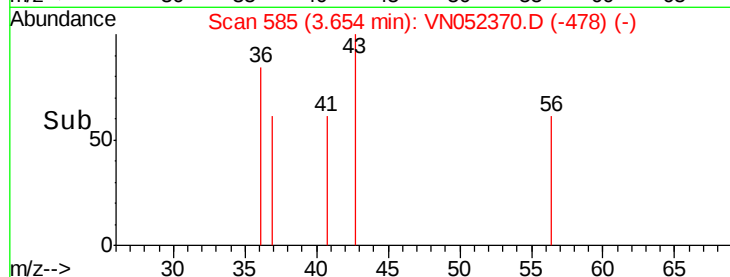
100

50

0

3.64 3.65 3.66 3.67

Time-->



#16

Acetone

Concen: 12.680 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052370.D

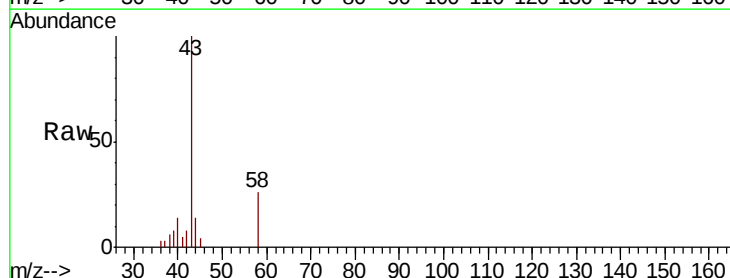
Acq: 16 Nov 2018 17:40

Tgt Ion: 43 Resp: 14656

Ion Ratio Lower Upper

43 100

58 26.0 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

6000

5000

4000

3000

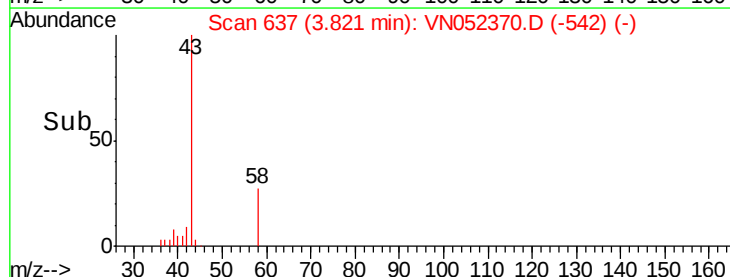
2000

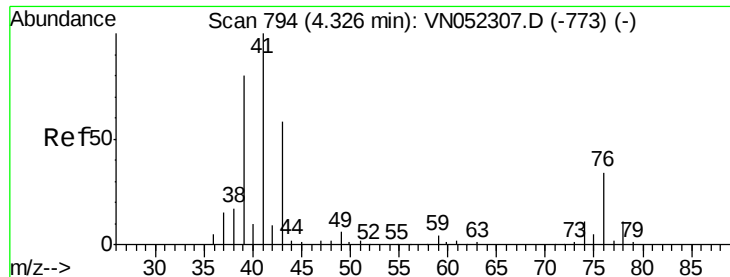
1000

0

3.70 3.80 3.90

Time-->

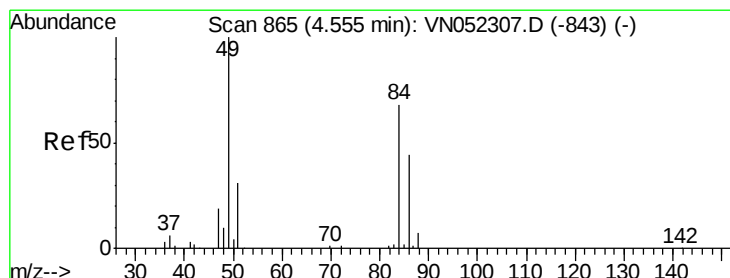
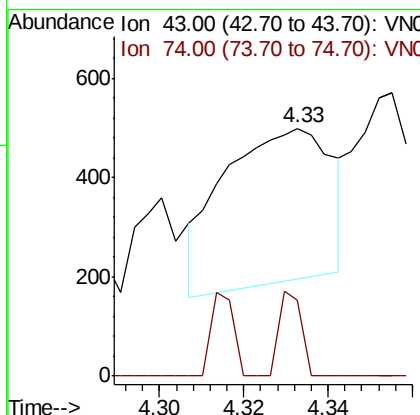
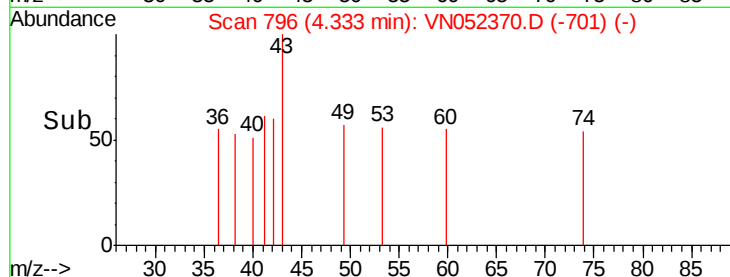
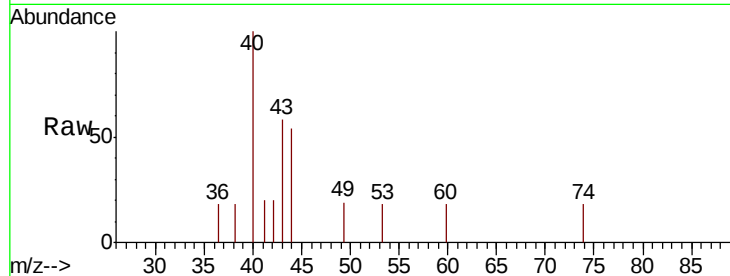




#18
Methyl Acetate
Concen: 0.601 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN052370.D
Acq: 16 Nov 2018 17:40

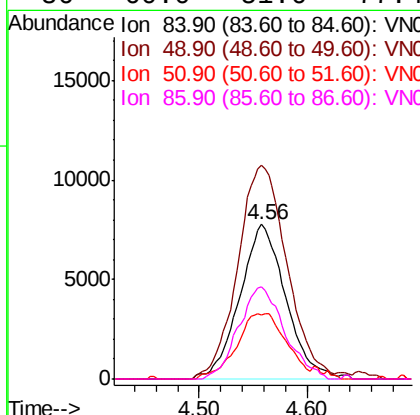
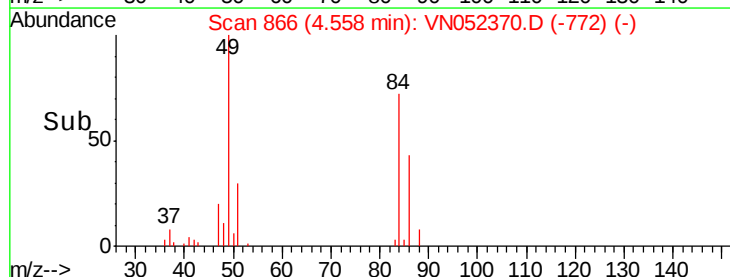
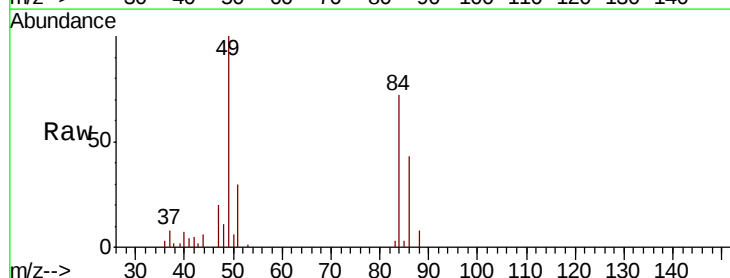
Instrument :
MSVOA_N
ClientSampleId :
CL-01-111418-D

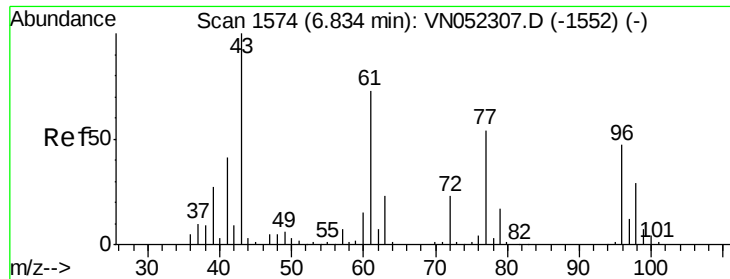
Tot Ion: 43 Resp: 554
Ion Ratio Lower Upper
43 100
74 11.2 15.9 23.9#



#20
Methylene Chloride
Concen: 5.897 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052370.D
Acq: 16 Nov 2018 17:40

Tgt Ion: 84 Resp: 22908
Ion Ratio Lower Upper
84 100
49 138.4 118.2 177.2
51 41.6 36.1 54.1
86 60.0 51.6 77.4





#25

2-Butanone

Concen: 0.227 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

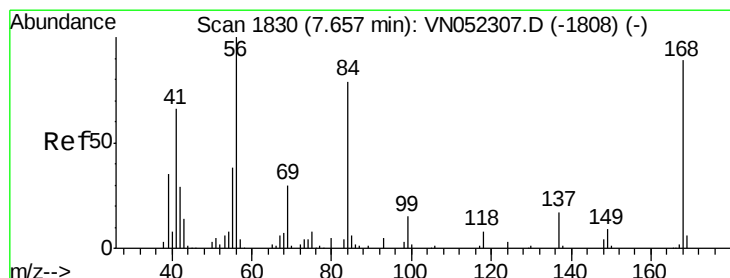
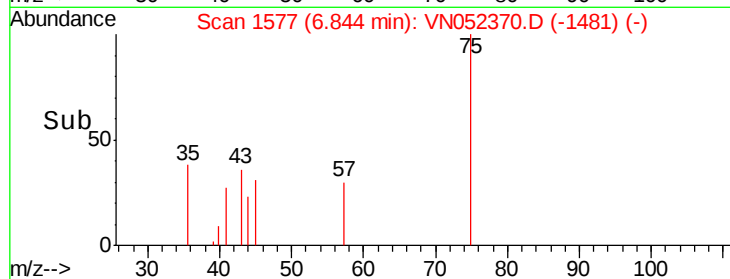
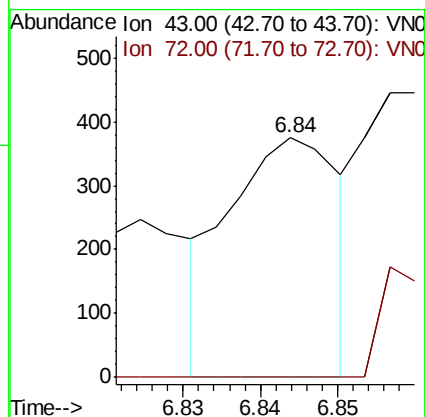
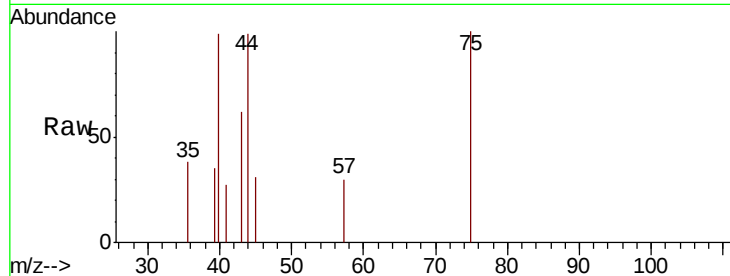
CL-01-111418-D

Tot Ion: 43 Resp: 369

Ion Ratio Lower Upper

43 100

72 0.0 18.6 27.8#



#31

Cyclohexane

Concen: 0.280 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

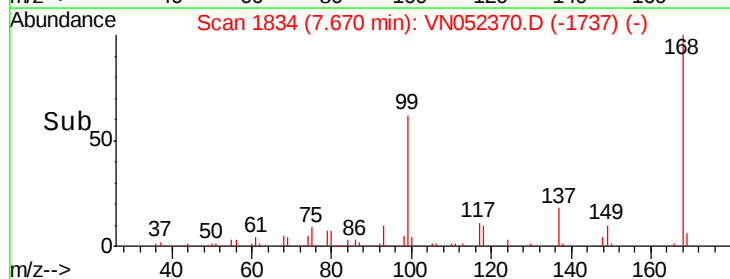
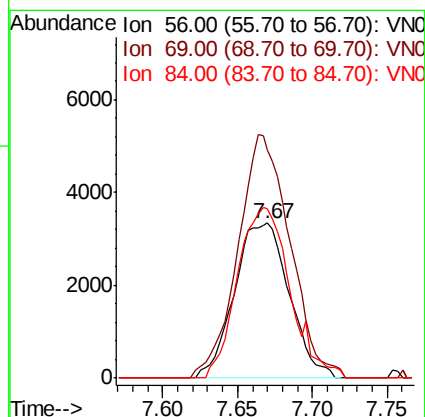
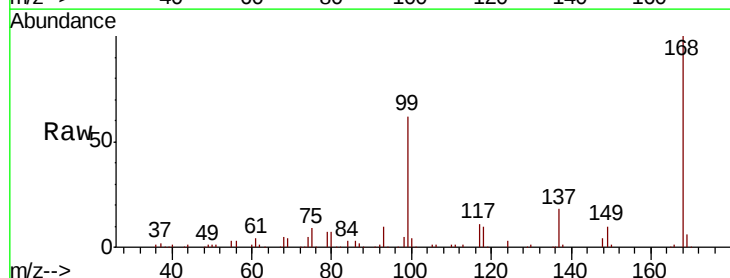
Tgt Ion: 56 Resp: 8521

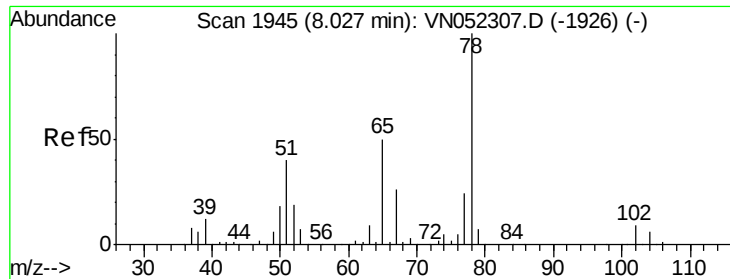
Ion Ratio Lower Upper

56 100

69 147.4 23.8 35.8#

84 108.8 63.0 94.6#

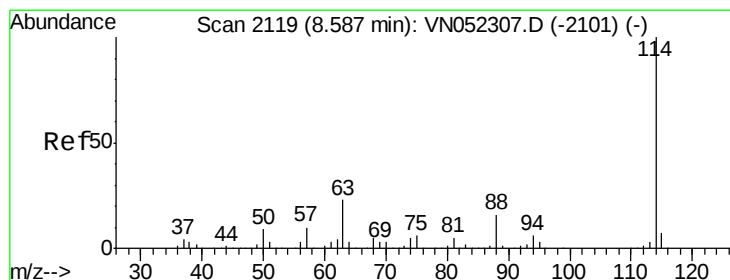
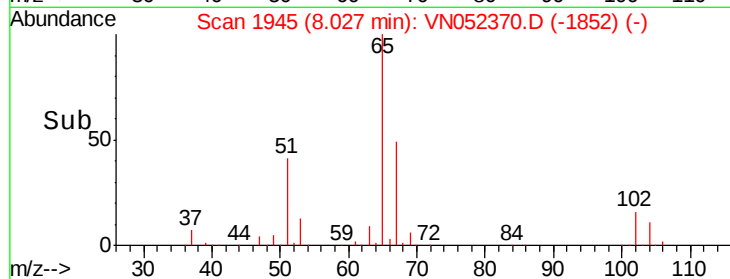
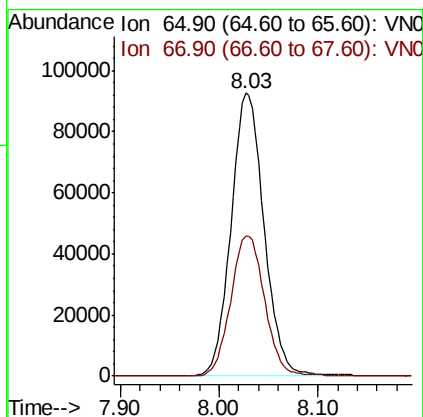
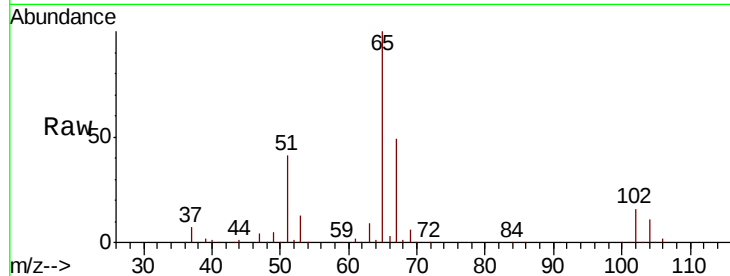




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052370.D
 Acq: 16 Nov 2018 17:40

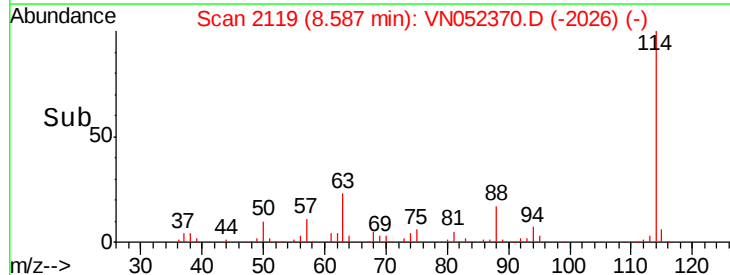
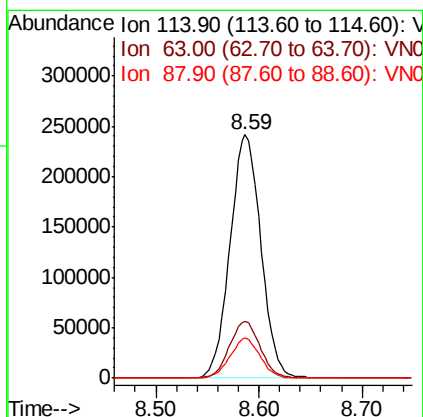
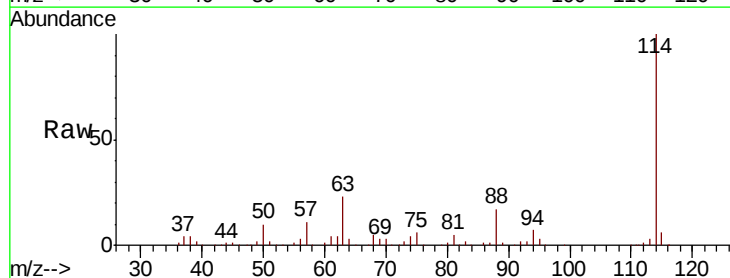
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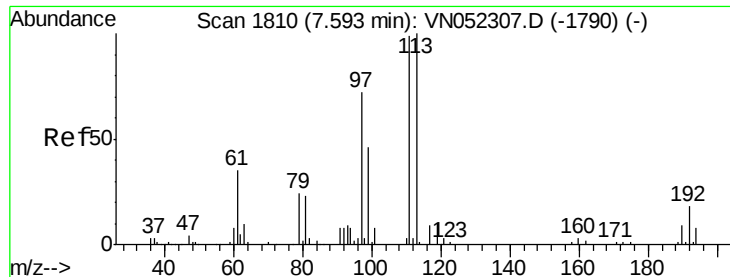
Tot Ion: 65 Resp: 215618
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052370.D
 Acq: 16 Nov 2018 17:40

Tgt Ion: 114 Resp: 503123
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 45.4
 88 16.6 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.60 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

CL-01-111418-D

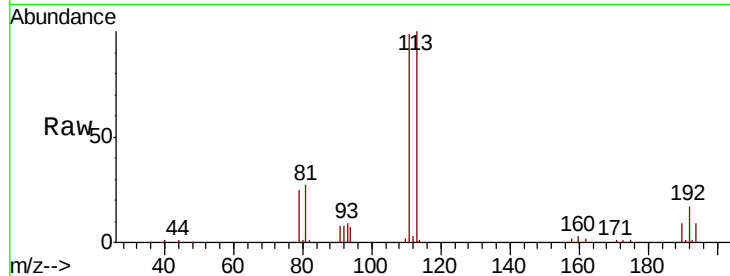
Tot Ion:113 Resp: 161416

Ion Ratio Lower Upper

113 100

111 103.5 81.0 121.6

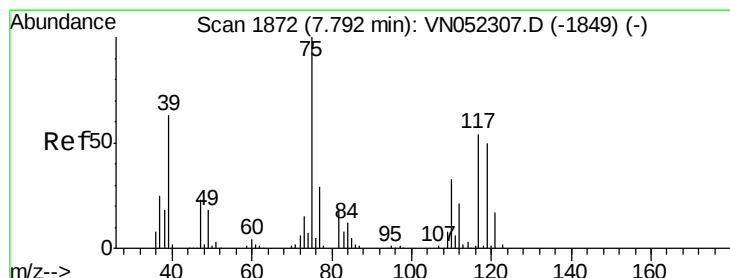
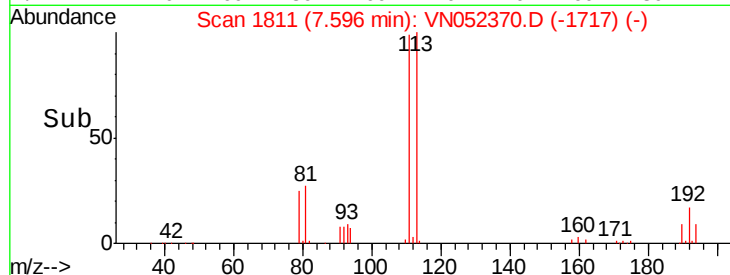
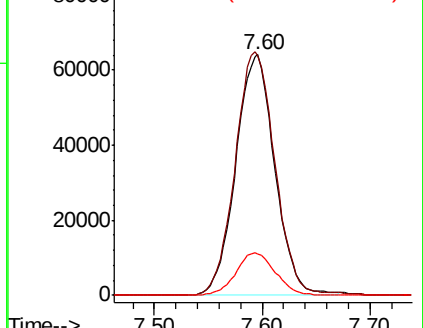
192 17.8 13.8 20.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.523 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

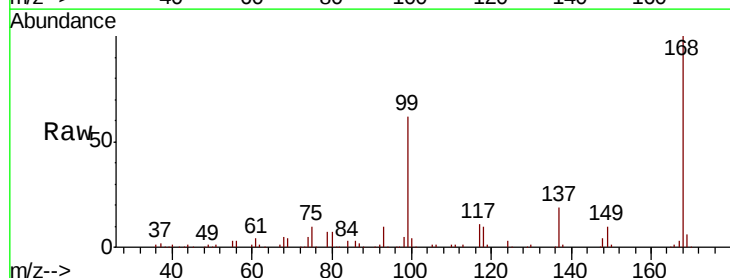
Tgt Ion: 75 Resp: 27851

Ion Ratio Lower Upper

75 100

110 9.2 16.5 49.5#

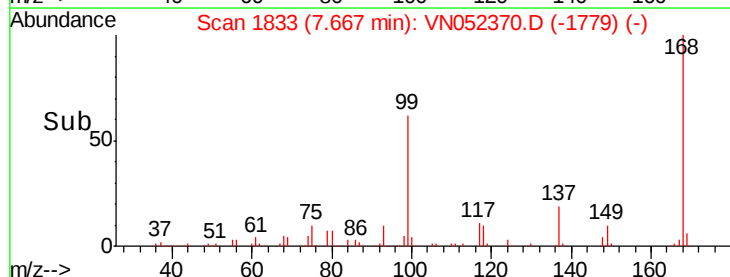
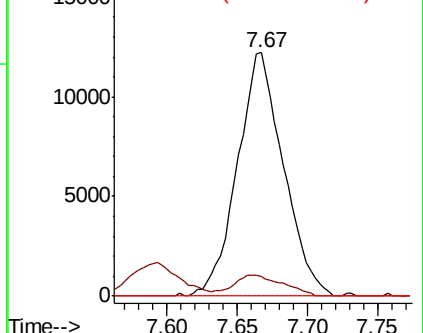
77 0.0 24.2 36.2#

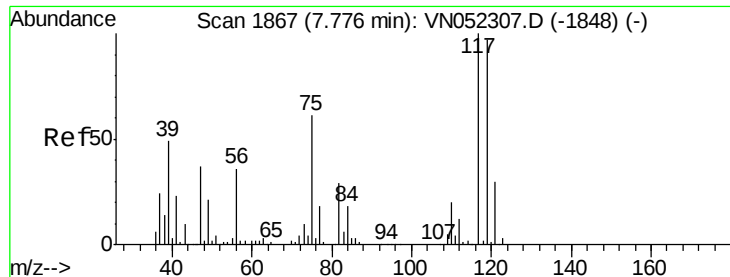


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.923 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

CL-01-111418-D

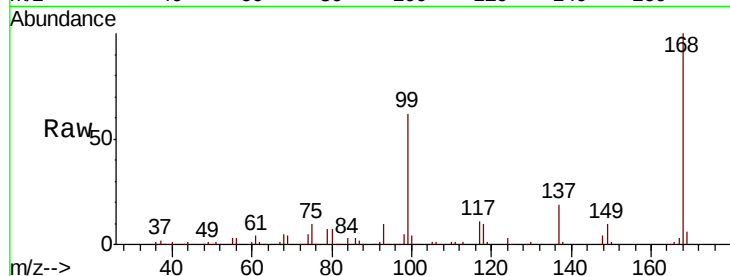
Tot Ion:117 Resp: 32072

Ion Ratio Lower Upper

117 100

119 4.6 77.4 116.0#

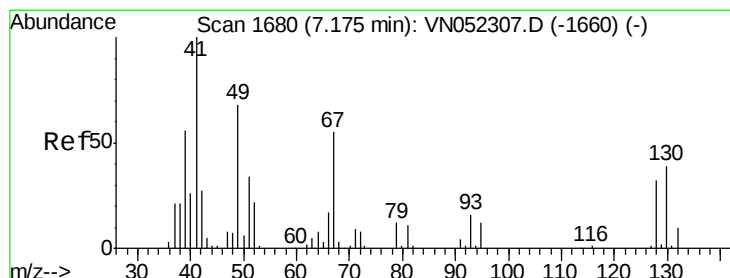
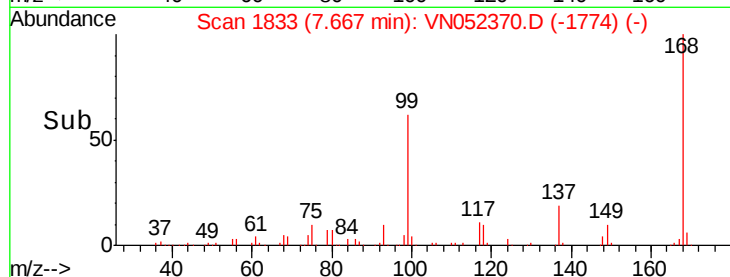
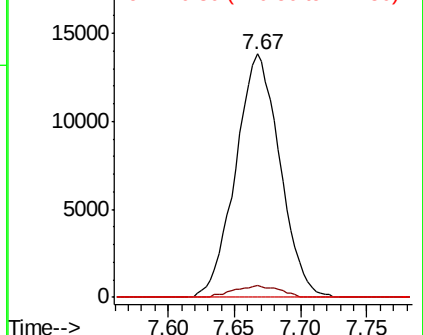
121 0.0 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 3.782 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

Tgt Ion: 41 Resp: 191

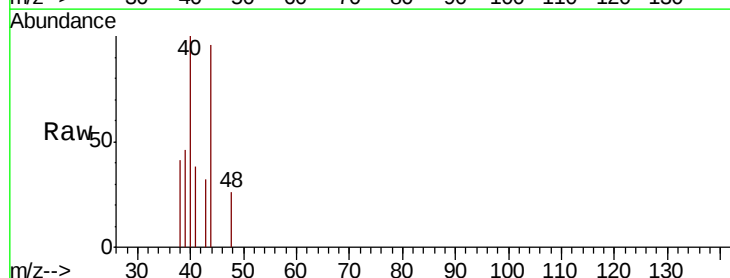
Ion Ratio Lower Upper

41 100

39 56.5 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

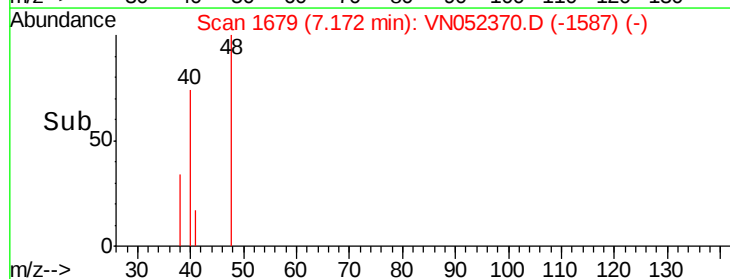
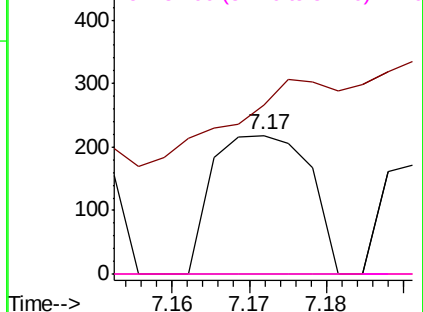


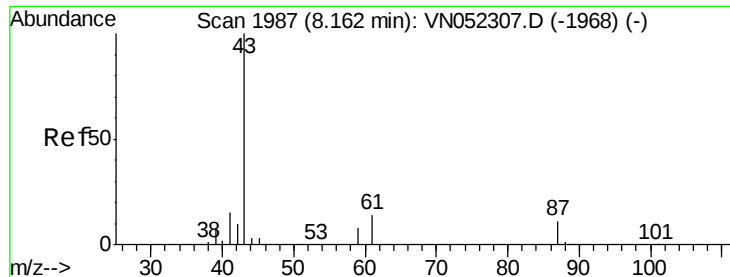
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 2.873 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

CL-01-111418-D

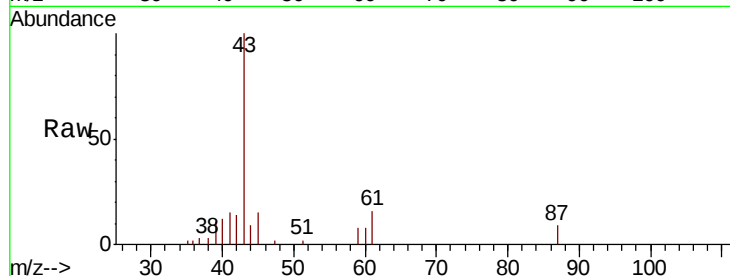
Tot Ion: 43 Resp: 20288

Ion Ratio Lower Upper

43 100

61 14.7 12.0 18.0

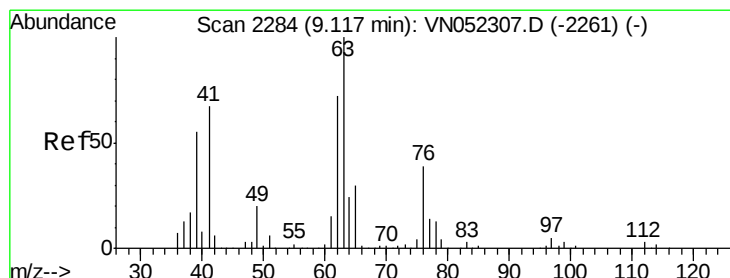
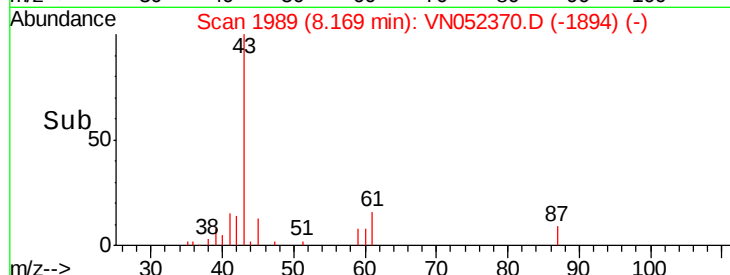
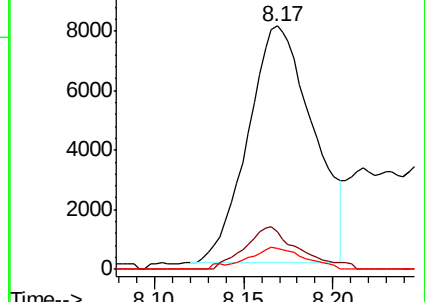
87 8.2 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.240 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN052370.D

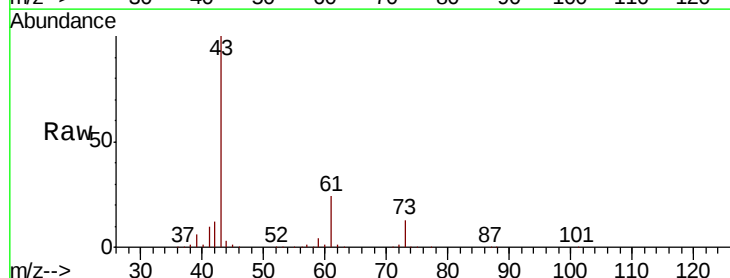
Acq: 16 Nov 2018 17:40

Tgt Ion: 63 Resp: 980

Ion Ratio Lower Upper

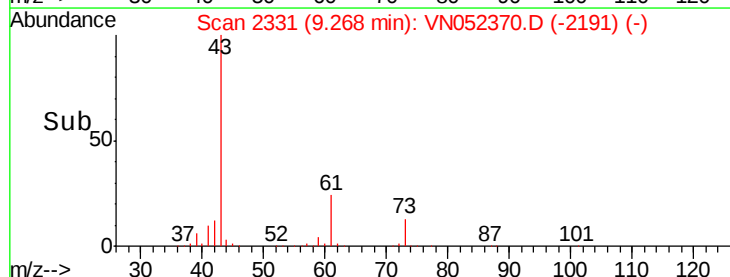
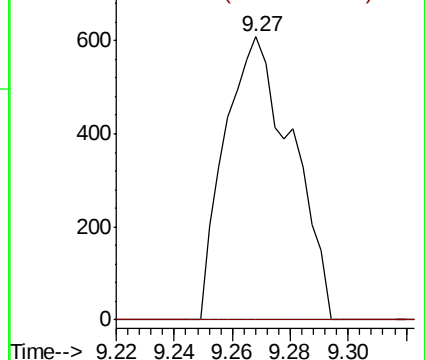
63 100

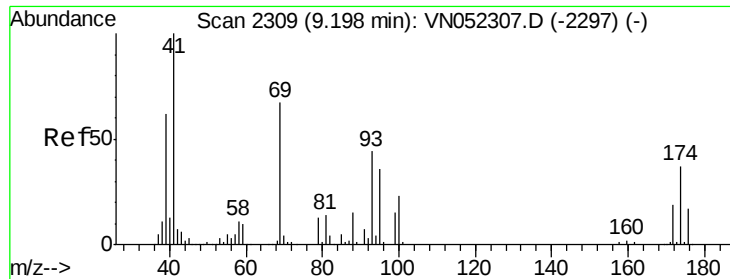
65 0.0 24.2 36.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

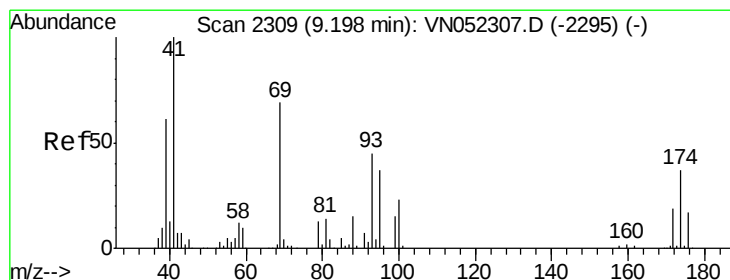
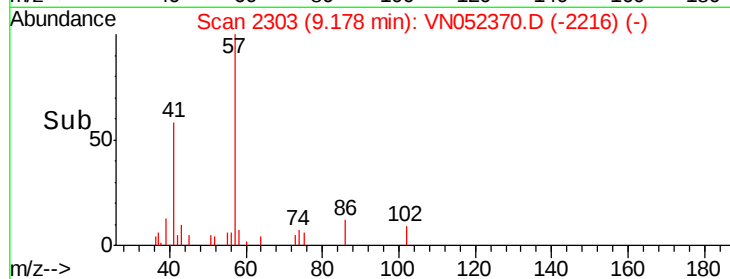
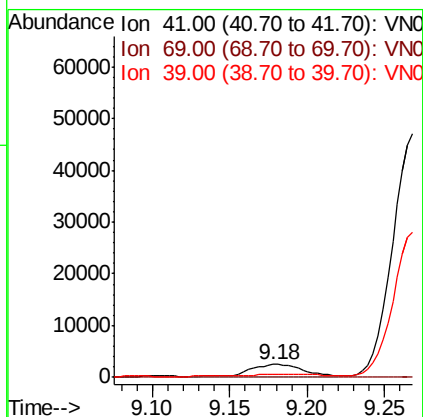
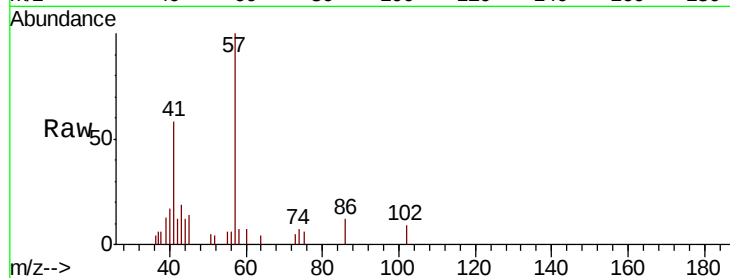




#48
Methvl methacrylate
Concen: 1.778 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052370.D
Acq: 16 Nov 2018 17:40

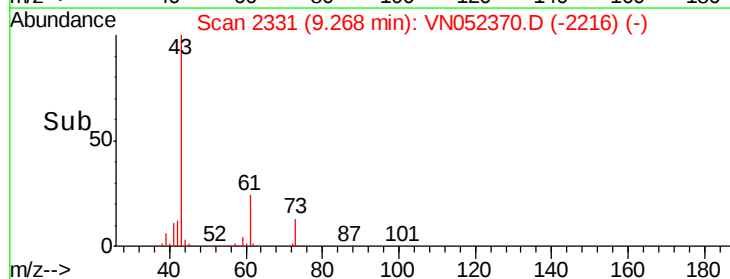
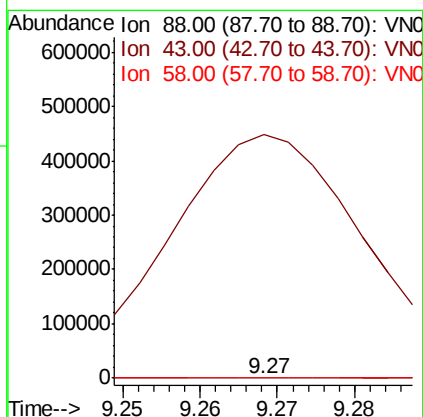
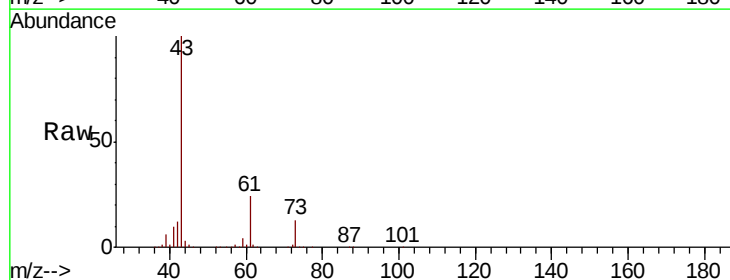
Instrument :
MSVOA_N
ClientSampleId :
CL-01-111418-D

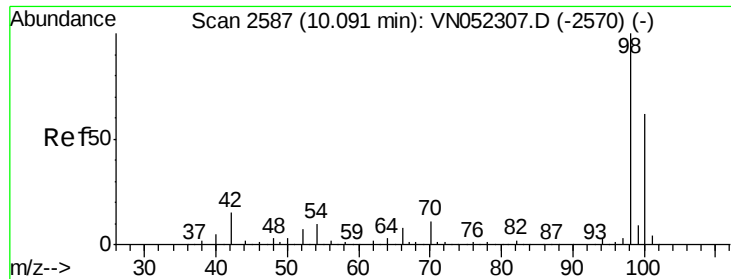
Tot Ion: 41 Resp: 6370
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 0.0 52.5 78.7#



#49
1,4-Dioxane
Concen: 3.781 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN052370.D
Acq: 16 Nov 2018 17:40

Tgt Ion: 88 Resp: 104
Ion Ratio Lower Upper
88 100
43 798190.4 33.3 49.9#
58 3877.9 59.2 88.8#





#50

Toluene-d8

Concen: 3.781 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

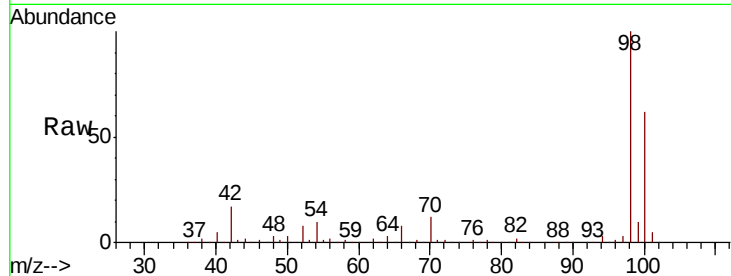
CL-01-111418-D

Tot Ion: 98 Resp: 631659

Ion Ratio Lower Upper

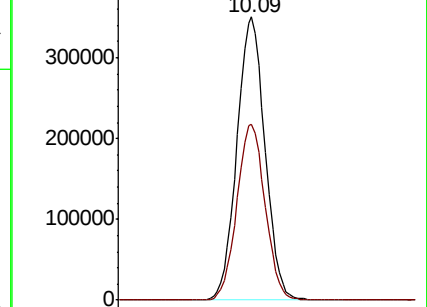
98 100

100 62.5 49.5 74.3

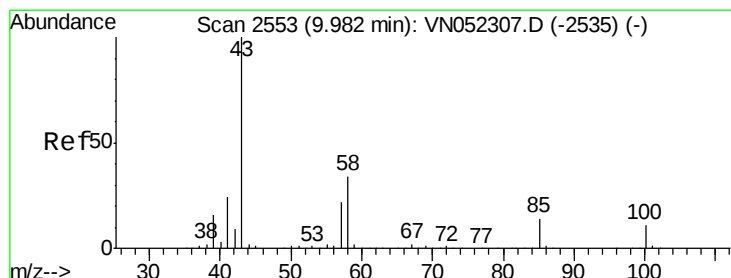
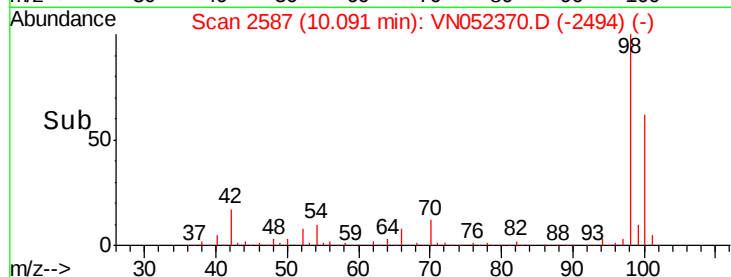


Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.611 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052370.D

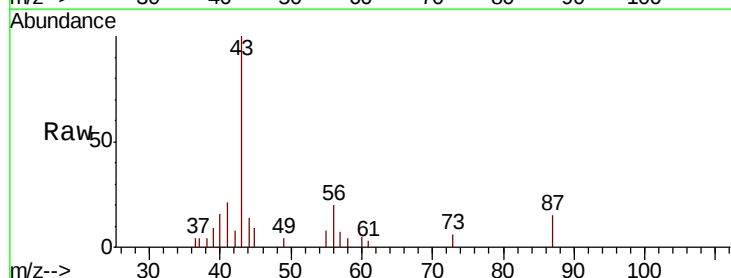
Acq: 16 Nov 2018 17:40

Tgt Ion: 43 Resp: 5728

Ion Ratio Lower Upper

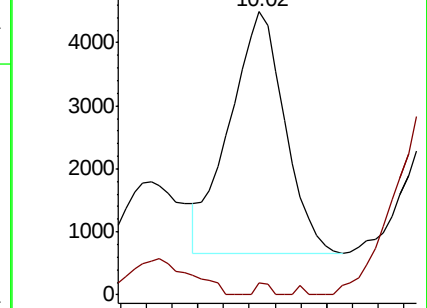
43 100

58 0.0 27.0 40.6#

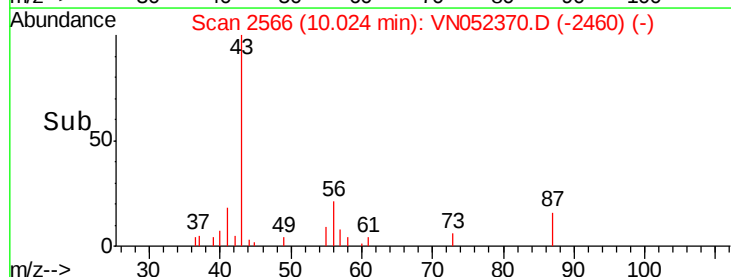


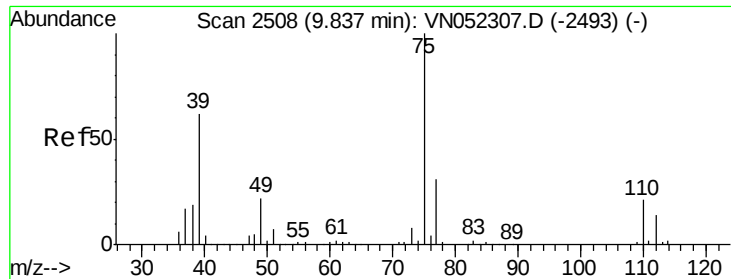
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.367 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

CL-01-111418-D

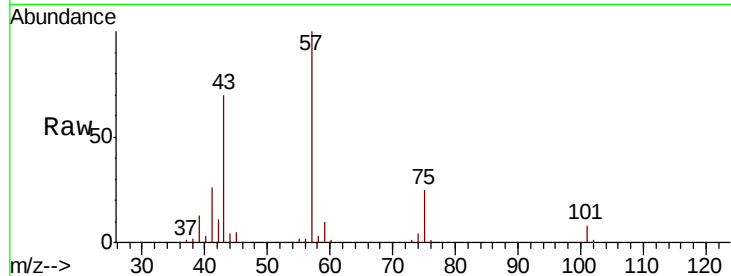
Tot Ion: 75 Resp: 35554

Ion Ratio Lower Upper

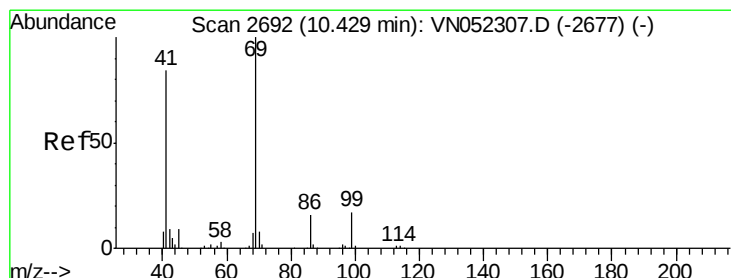
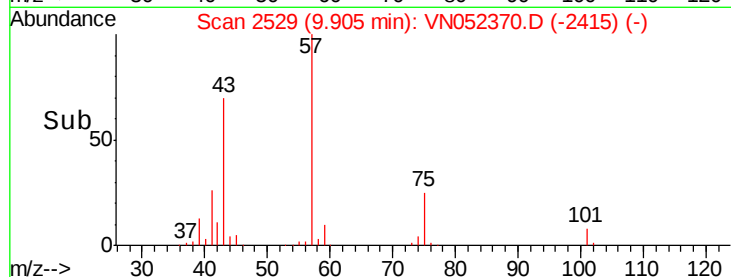
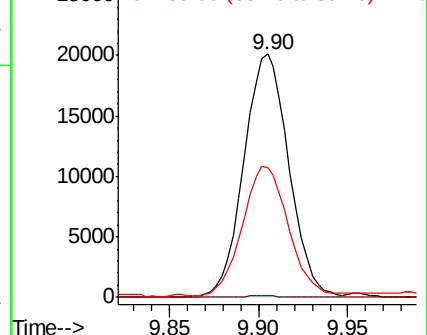
75 100

77 0.9 24.6 36.8#

39 52.6 49.9 74.9



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.211 ug/l

RT: 10.55 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

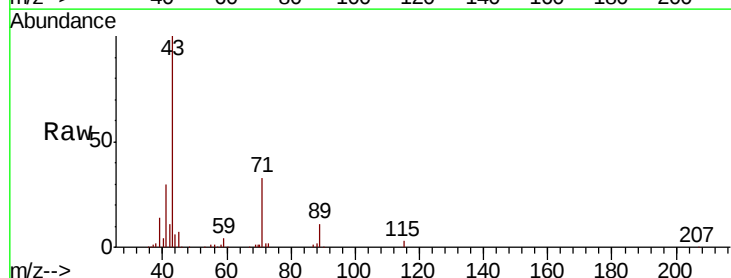
Tgt Ion: 69 Resp: 868

Ion Ratio Lower Upper

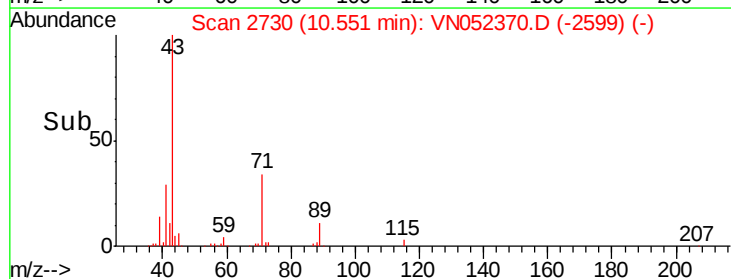
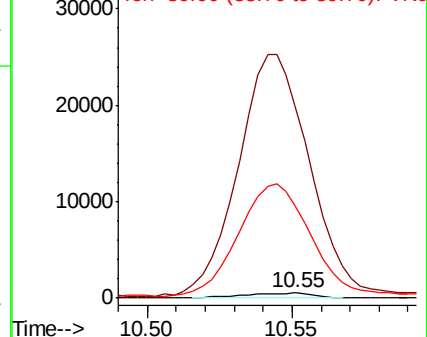
69 100

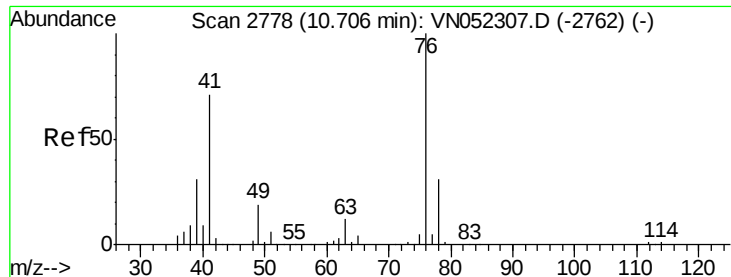
41 5006.3 64.8 97.2#

39 2314.5 41.0 61.6#



Abundance Ion 69.00 (68.70 to 69.70): VN0
Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.224 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

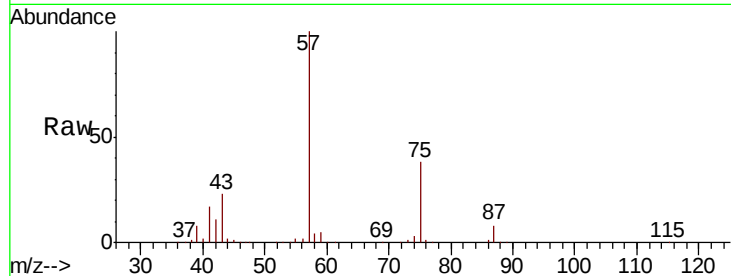
CL-01-111418-D

Tot Ion: 76 Resp: 6775

Ion Ratio Lower Upper

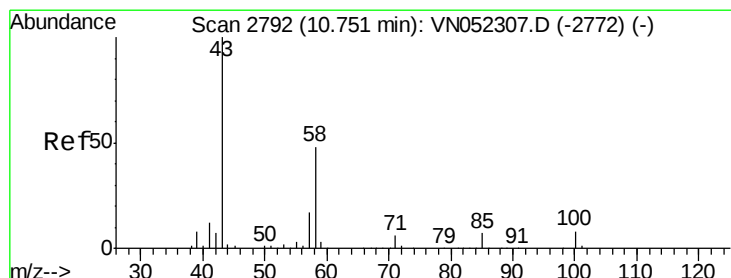
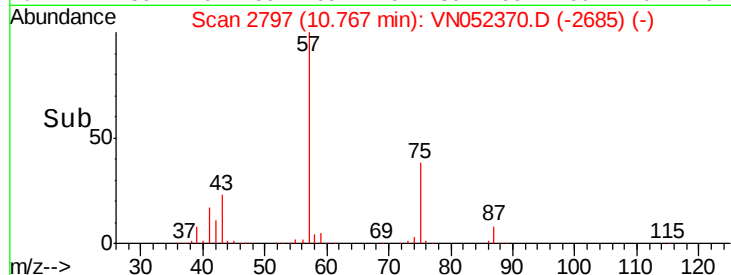
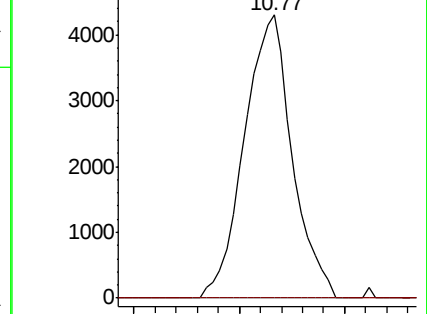
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 47.285 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052370.D

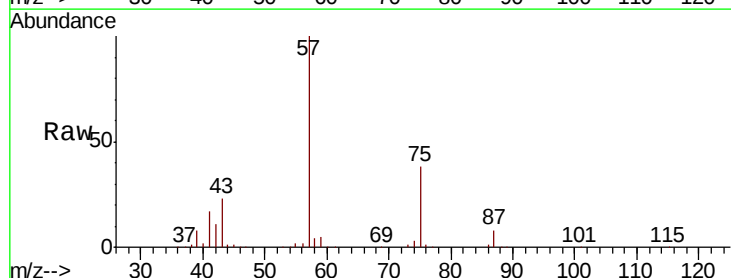
Acq: 16 Nov 2018 17:40

Tgt Ion: 43 Resp: 115618

Ion Ratio Lower Upper

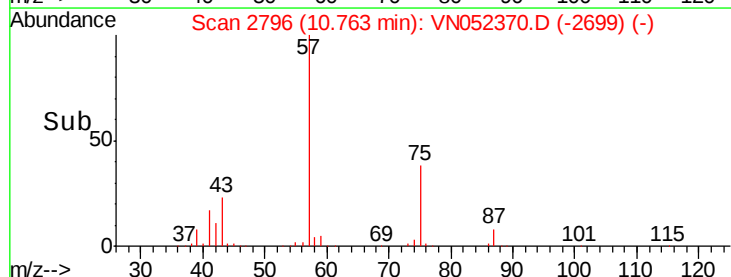
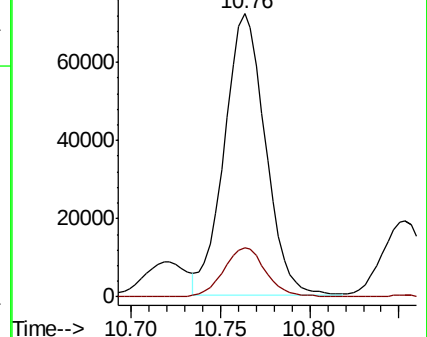
43 100

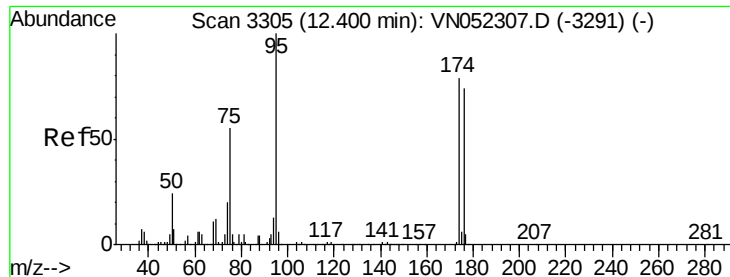
58 18.0 23.5 70.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

CL-01-111418-D

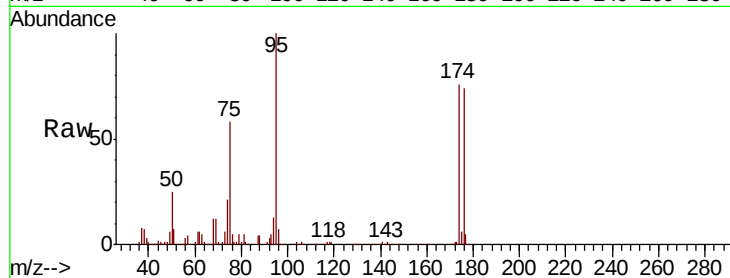
Tot Ion: 95 Resp: 176628

Ion Ratio Lower Upper

95 100

174 75.8 0.0 156.0

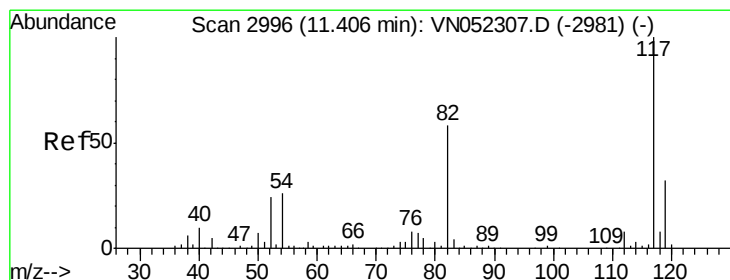
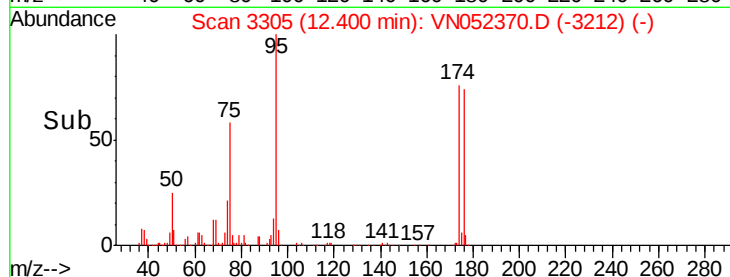
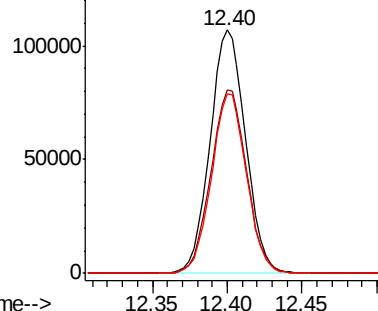
176 72.5 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052370.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052370.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052370.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

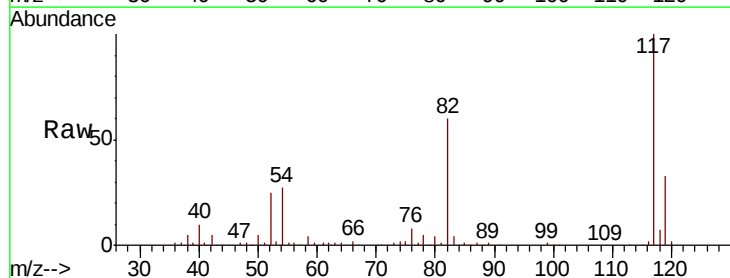
Tgt Ion: 117 Resp: 419953

Ion Ratio Lower Upper

117 100

82 59.5 46.5 69.7

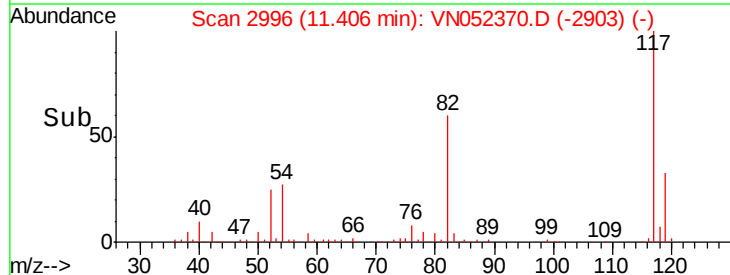
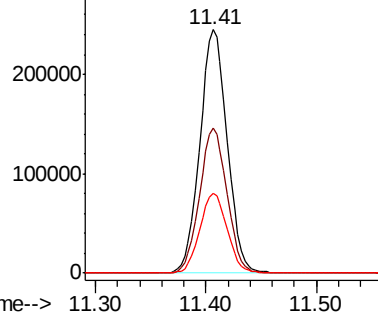
119 32.9 25.7 38.5

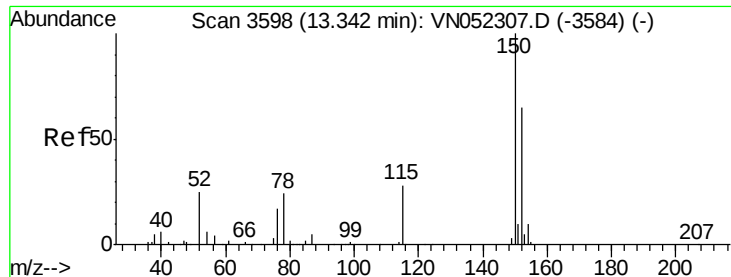


Abundance Ion 116.90 (116.60 to 117.60): VN052370.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN052370.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN052370.D (-2981) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

CL-01-111418-D

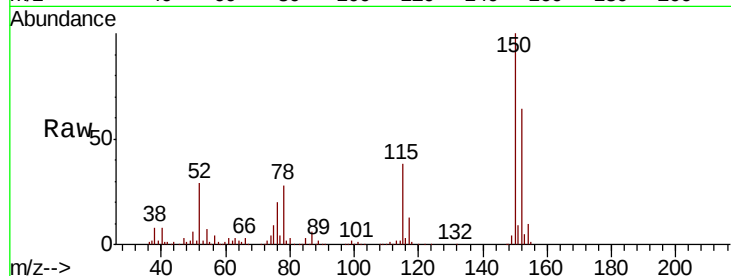
Tot Ion:152 Resp: 134941

Ion Ratio Lower Upper

152 100

115 61.0 30.3 91.0

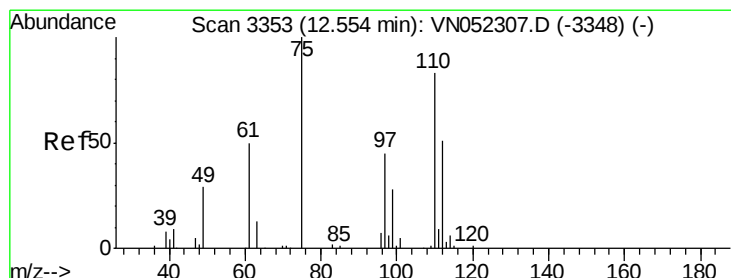
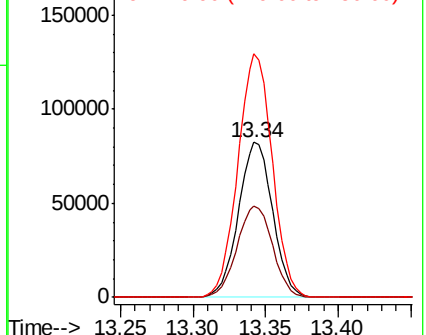
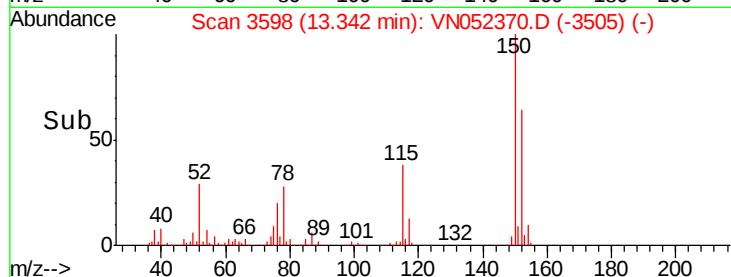
150 158.0 0.0 348.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 44.146 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052370.D

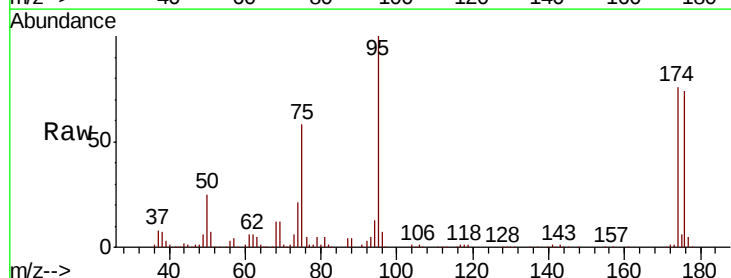
Acq: 16 Nov 2018 17:40

Tgt Ion: 75 Resp: 101080

Ion Ratio Lower Upper

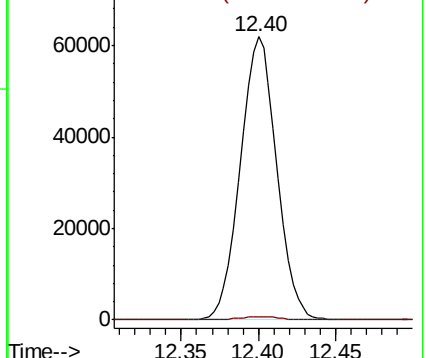
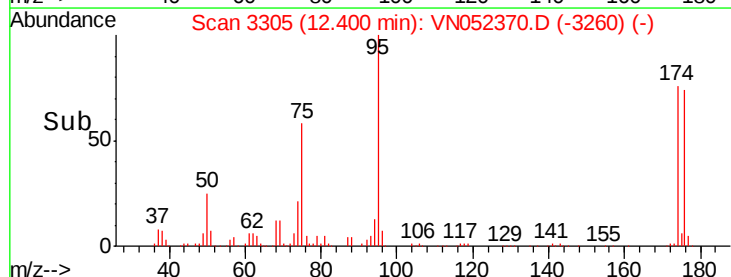
75 100

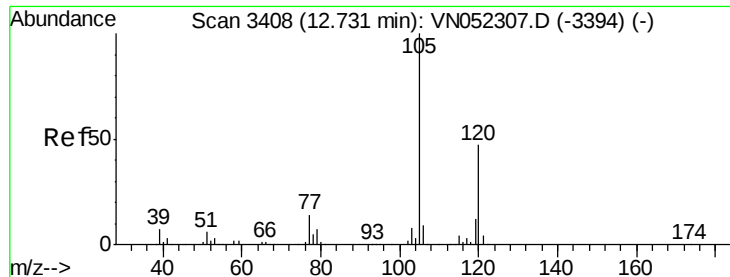
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.357 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.01 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

Instrument :

MSVOA_N

ClientSampleId :

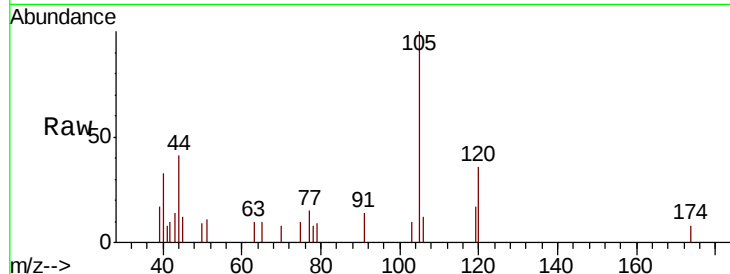
CL-01-111418-D

Tot Ion:105 Resp: 3078

Ion Ratio Lower Upper

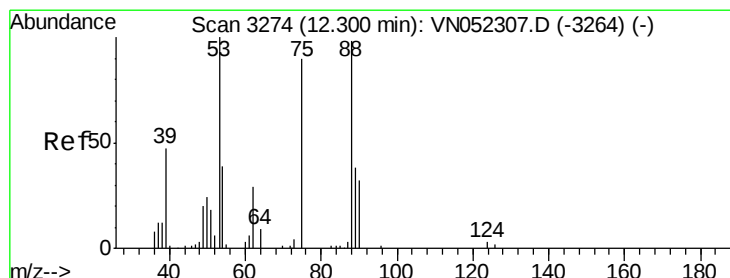
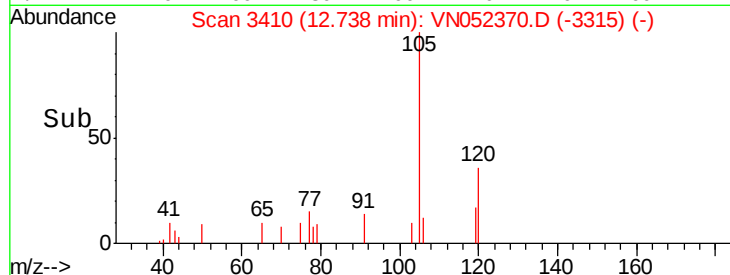
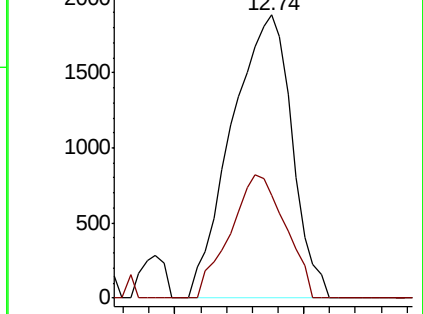
105 100

120 39.7 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 143.181 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052370.D

Acq: 16 Nov 2018 17:40

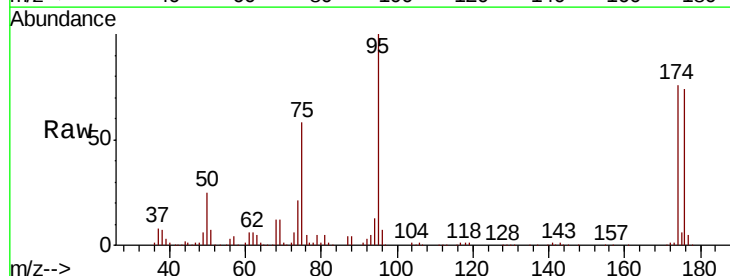
Tgt Ion: 75 Resp: 101080

Ion Ratio Lower Upper

75 100

53 0.1 90.2 135.2#

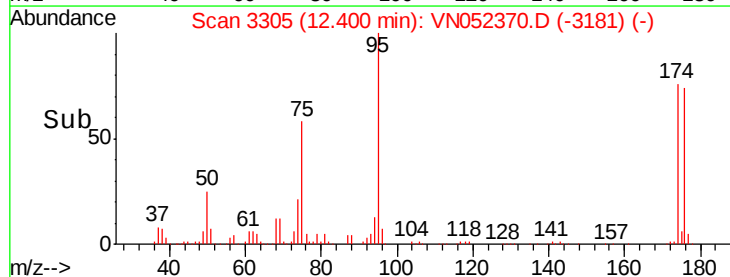
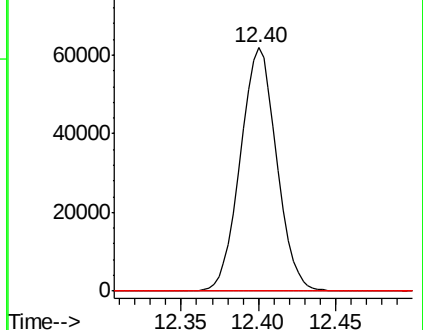
89 0.0 35.4 53.0#

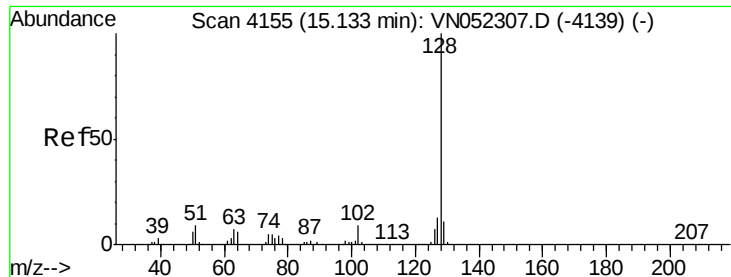


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

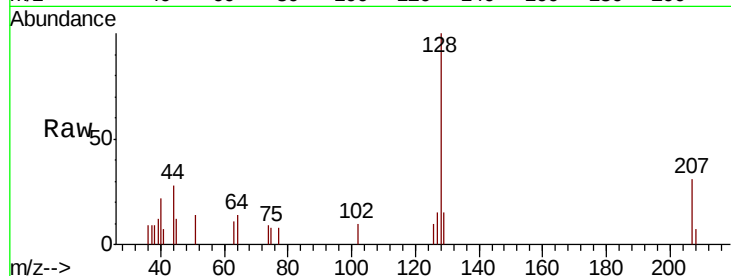




#95
Naphthalene
Concen: 3.497 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN052370.D
Acq: 16 Nov 2018 17:40

Instrument :
MSVOA_N
ClientSampleId :
CL-01-111418-D

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.4	15.6
129	8.9	8.6	13.0



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

